

# BEST AVAILABLE COPY PATENT ABSTRACTS OF JAPAN

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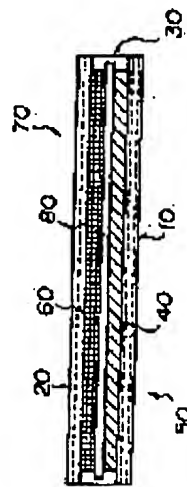
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## (54) ANODE ACTIVE MASS FOR ALKALI METAL SECONDARY BATTERY AND MANUFACTURE OF CATHODE USING SAID ACTIVE MASS

### (57)Abstract:

PURPOSE: To manufacture an anode for an alkali metal secondary battery by spraying an anode active mass of composite metal oxide containing an alkali metal to a conductive substrate.

CONSTITUTION: An anode active mass is prepared by adding an organic solvent such as ethanol, etc., to a mixture of lithium carbonate with manganese carbonate and/or cobalt carbonate, pulverizing the resulting mixture by a pulverizing means such as a ball mill, etc., sintering the mixture at for example 750-950°C for 2-6 hours under oxygen atmosphere after drying, further adding the said organic solvent to the mixture, pulverizing the mixture by a ball mill, and drying. In a battery, a pair of an anode plate 10 (a conductive substrate) and a cathode plate 20 are arranged with a side sealing material 30 between them in a state that they are separated from each other. An anode active mass 40 is plasma-sprayed to the back side of the anode plate 10 to form an anode 50 and meanwhile a cathode active mass consisting of lithium metal is press- bound to the back side of the cathode plate 20 to form a cathode 70 and a separator 80 is put between the active masses 40, 60.



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